

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2005/001369

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): A61K-31/121, A61K-7/48, A61K-7/02, A61P-17/06, A61P-17/16, A61P-17/12, A61K-31/015 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC ⁷ : A61K-31/121 A61K-31/12 A61K-31/11 A61K-7/48 A61K-7/02 A61P-17 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) Delphion, Canadian Patent Database and PubMed Keywords = oxid*, oxygen, caroten*, heptadienal, vitamin A, retinol, retinoic, skin, dermatol*, dandruff, psoriasis, eczema and related terms		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 93/15740 (Kligman, A. M.) 19 August 1993 (19.08.93) Abstract, pages 7-11, Claims and Examples	1, 6, 9, 10, 21, 24, 25, 28-30, 45 and 47
X	WO 96/34601 (Braiman, M. S.) 7 November 1996 (07.11.1996) Abstract, pages 6, 7 and 21, Claims and Examples 2 and 3	1, 10, 21-24 and 45
X	US 5,646,186 (Wang, J. C. T. et al.) 8 July 1997 (08.07.1997) Abstract, col. 1-3 and Claims	1-4, 10, 21, 26, 45 and 47
X	US 6,008,254 (Kligman, D. E. et al.) 28 December 1999 (28.12.1999) Abstract, col. 2-3 and Claims	1-4, 6, 7, 10, 21, 26, 27, 32, 45 and 47
X	US 6,544,532 (Jager-Lezer, N. et al.) 8 April 2003 (08.04.2003) Abstract, col. 6-8 and Claims	1, 3-5, 10, 21, 26, 45 and 47
A	CA 2,171,625 (Burton, G. et al.) 22 February 1996 (22.02.1996) entire document	1-48
A	CA 2,221,122 (Eliasz, I. et al.) 15 May 1998 (15.05.1998) entire document	1-48
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 7 September 2005 (07.09.2005)		Date of mailing of the international search report 6 October 2005 (06-10-2005)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476		Authorized officer Stephen Decker (819) 934-2333

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2005/001369

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Morganti, P. et al. "Protective Effects of Oral Antioxidants on Skin and Eye Function" Skinmed 2004, 3, 310-316. entire document	1-48

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2005/001369

Box No. II Observations where certain claims were found unsearchable (Continuation of Item 2 of the first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☒ Claim Nos. : 21-44
because they relate to subject matter not required to be searched by this Authority, namely :

claims 21- 44 are directed to a method of treatment of the human or animal body (Rule 39.1 (iv) PCT), however, the search was carried out on the alleged effects of the composition.
2. ☐ Claim Nos. :
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
3. ☐ Claim Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/IB2005/001369

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO9315740	19-08-1993	AU667519 B2	28-03-1996
		CA2129114 A1	19-08-1993
		CZ9401883 A3	14-02-1996
		EP0625045 A1	23-11-1994
		FI943625 A	04-08-1994
		JP2927961B2	28-07-1999
		JP7505617 T	22-06-1995
		NO942913 A	05-10-1994
		NZ249379 A	28-07-1998
		NZ286443 A	28-10-1999
		US5998395 A	07-12-1999
		ZA9300811 A	10-09-1993
WO9634601	07-11-1996	AT223714 T	15-09-2002
		AU5728596 A	21-11-1996
		DE69623612 D1	17-10-2002
		DE69623612 T2	15-05-2003
		EP0824348 A1	25-02-1998
		US5719195 A	17-02-1998
US5646186	08-07-1997	AT183075 T	15-08-1999
		AU688757 B2	19-03-1998
		AU6333794 A	01-12-1994
		BR9402089 A	13-12-1994
		CA2124531 A1	28-11-1994
		DE69419981 D1	16-09-1999
		DE69419981 T2	13-01-2000
		DK631772 T3	06-12-1999
		EP0631772 A2	04-01-1995
		ES2134320 T3	01-10-1999
		HK1003297 A1	28-04-2000
		JP7048243 A	21-02-1995
		SG81882 A1	24-07-2001
		US5965616 A	12-10-1999
		ZA9403700 A	27-11-1995
US6008254	28-12-1999	AU7374998 A	27-11-1998
		CA2288706 A1	12-11-1998
		EP0980243 A1	23-02-2000
		US6228887 B1	08-05-2001
		WO9850023 A1	12-11-1998
US6544532	08-04-2003	BR0006007 A	06-03-2001
		CA2333773 A1	05-10-2000
		CN1310804 A	29-08-2001
		DE60007041 D1	22-01-2004
		DE60007041 T2	30-09-2004
		EP1082082 A1	14-03-2001
		ES2212991 T3	16-08-2004
		FR2791566 A1	06-10-2000
		JP2002540131 T	26-11-2002
		WO0057844 A1	05-10-2000
		JP 2005200423A	28-07-2005

Continued on Supplemental Page

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2005/001369

Continuation of Information on Patent Family Members

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2171625	22-02-1996	AT201394 T	15-06-2001
		AU704640 B2	29-04-1999
		AU3160095 A	07-03-1996
		CN1131939 A	25-09-1996
		CZ9601038 A3	13-11-1996
		DE69521020 D1	28-06-2001
		DE69521020 T2	15-11-2001
		EP0722431 A1	24-07-1996
		ES2160172 T3	01-11-2001
		FI961544 A	09-04-1996
		GB2297325 A	31-07-1996
		HK1013814 A1	14-04-2000
		JP9504038 T	22-04-1997
		NZ290769 A	26-08-1998
		PL184296 B1	30-09-2002
		PT722431 T	30-11-2001
		US5475006 A	12-12-1995
		US2003096875 A1	22-05-2003
		WO9605160 A1	22-02-1996
CA2221122	15-05-1998	US5874093 A	23-02-1999